

Amendments to the Specification

Please replace paragraph [0022] with the following rewritten paragraph:

[0022] As is apparent from the foregoing explanation, the accuracy of positioning of the electric component as mounted on the substrate is influenced by not only the thermal expansion of the motion-transmitting member but also the thermal expansion of the main body structure of the electric-component mounting system. In the electric-component mounting system according to the above mode (1) of the present invention, the controller is operable to determine the drive signal for the drive device, by taking into account not only a positioning error of the movable portion due to the thermal expansion of the motion-transmitting member, but also a positioning error of the movable portion due to the thermal expansion of the main body structure. The present arrangement permits a sufficiently high degree of positioning accuracy of the electric component as mounted ~~is~~on the substrate, irrespective of the thermal expansion of the motion-transmitting member and main body structure. However, the controller may be arranged to determine the drive signal, by taking account of only one of the two positioning errors of the movable portion which are derived from the thermal expansion of the motion-transmitting member and the thermal expansion of the main body structure, respectively.

[] Please replace paragraph [0023] with the following rewritten paragraph:[]

[0023] For the controller to be able to optimize the drive signal, one of the object and the image-taking device which is ~~fixed~~fixedly disposed on the main body structure is desirably located at a portion of the main body structure at which the amount of thermal expansion is smaller than at the other portion (e.g., a portion at which the motion-transmitting member is supported), so that the position and attitude of the object or image-taking device disposed on the main body structure is less likely to be influenced by the thermal expansion of the main body structure.

Please replace paragraph [0107] with the following rewritten paragraph:

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[0107] The substrate 26 positioned by the conveyor 28 as shown in Fig. 10 is not necessarily located at the nominal position in the X-axis and Y-axis directions. Accordingly, it is necessary to detect the actual position of the substrate 26, and adjust movement data of each component-mounting head 32 for compensation of an error of the detected actual position with respect to the nominal position. To this end, the fiducial mark 76 is provided on the substrate 26, and the image-taking robot 24 is moved to move the second image-taking device 74 to a predetermined fiducial-mark imaging position at which the second image-taking ~~device~~ device 74 takes the image of the fiducial mark 76. Where the substrate 26 is located at the nominal position, the image of the fiducial mark 76 taken by the second image-taking device 74 located at the fiducial-mark imaging position is located at the center of the imaging area of the second image-taking device 74. In Fig. 10, two-dot chain line indicates the second image-taking device 74 located at the fiducial-mark imaging position at which the image of the fiducial mark 76 on the substrate 27 is taken.

Please replace paragraph [0178] with the following rewritten paragraph:

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[0178] It will further be understood that the thermal-expansion detecting mark 54, main body 56, projecting member 58 and surface-light-emitting sheet 60 cooperate to constitute an example of an object to be imaged by the first image-taking device 52, while the thermal-expansion detecting mark 92, main body 94, projecting member 96 and surface-light-emitting sheet 98 cooperate to constitute an example of an object to be imaged by the second image-taking device 74. It will also be understood that each of the thermal-expansion detecting marks 54, 92 is an example of a central portion of the object to be imaged, while each of the surface-light-emitting sheets 60, 98 is an example of a peripheral portion of the object to be imaged, and an example of a planar element or adhesive seal attached or bonded to the main body 56 or 94. It will further be understood that each of the main bodies 56, 94 is

an example of a main body of the object to be imaged, while each of the projecting members 58, 96 is an example of a projecting portion of the object. It will further be understood that each of the first image-taking devices 52 for the component-mounting robots 22 and the second image-taking device for the image-taking robot 24 is an example of a image-taking device device 74.
